



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590



REPLY TO THE ATTENTION OF

March 21, 2002

Marcus Martin
Highland Environmental Management
1630 30th Street, Suite 600
Boulder, CO 80301

David Hoffmann
McMahon, DeGulis, Hoffmann & Lombardi LLP
The Caxton Building, Suite 650
812 Huron Road
Cleveland, OH 44115-1126

Dennis Reis LLC
P.O. Box 170740
Milwaukee, WI 53217

Re: Master Metals Administrative Order on Consent

Gentlemen:

Enclosed please find the Master Metals Administrative Order on Consent. Please have your clients execute the document and return it to me as soon as possible.

Very truly yours,

A handwritten signature in cursive script that reads "Susan W. Prout".

Susan W. Prout
Associate Regional Counsel

Enclosure

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5**

IN THE MATTER OF:	)	Docket No.
)	
Master Metals, Inc.,	)	ADMINISTRATIVE ORDER BY
Superfund Site,	)	CONSENT PURSUANT TO
Cleveland, Ohio	)	SECTION 106 OF THE
	)	COMPREHENSIVE
	)	ENVIRONMENTAL RESPONSE,
Respondents:	)	COMPENSATION, AND
	)	LIABILITY ACT OF 1980,
Listed in Attachment A	)	as amended, 42 U.S.C.
	)	§9606(a)
Limited Respondents for)	
Operation and Maintenance Only))	
Listed in Attachment B)	

I. JURISDICTION AND GENERAL PROVISIONS

This Order is entered voluntarily by the United States Environmental Protection Agency ("U.S. EPA") and the Respondents. The Order is issued pursuant to the authority vested in the President of the United States by Sections 106(a), 107 and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended ("CERCLA"), 42 U.S.C. §§9606(a), 9607 and 9622. This authority has been delegated to the Administrator of the U.S. EPA by Executive Order No. 12580, January 23, 1987, 52 Fed. Reg. 2923, and further delegated to the Regional Administrators by U.S. EPA Delegation Nos. 14-14-A, 14-14-C and 14-14-D, and to the Director, Superfund Division, Region V, by Regional Delegation Nos. 14-14-A, 14-14-C and 14-14-D.

This Order provides for performance of removal actions and reimbursement of response costs incurred by the United States in connection with property located at the former Master Metals, Inc., facility, 2850 W. Third St., Cleveland, Ohio, (the "MMI Facility") and contamination at and around residential property at 1157, 1159 and 1167 Holmden Avenue, Cleveland, Ohio (the "Holmden Properties"). These areas collectively constitute the "Master Metals Site" or the "Site". This Order requires the Respondents to conduct removal actions described herein to abate an imminent and substantial endangerment to the public health, welfare or the environment that may be presented by the actual or threatened release of hazardous substances at or from the MMI Facility.

A copy of this Order will also be provided to the State of Ohio, which has been notified of the issuance of this Order pursuant to Section 106(a) of CERCLA, 42 U.S.C. §9606(a).

Respondents' participation in this Order will not constitute an admission of liability nor admission of U.S. EPA's findings or determinations contained in this Order except in a proceeding to enforce the terms of this Order. Respondents agree to comply with and be bound by the terms of this Order. Respondents further agree that they will not contest the basis or validity of this Order or its terms.

II. PARTIES BOUND

This Order applies to and is binding upon U.S. EPA, and upon Respondents and Respondents' heirs, receivers, trustees, successors and assigns. Any change in ownership or corporate status of Respondents including, but not limited to, any transfer of assets or real or personal property will not alter such Respondents' responsibilities under this Order. Respondents are jointly and severally liable for carrying out all activities required by this Order except for those activities outlined in this Order that are to be undertaken solely by the Limited Respondents for Operation and Maintenance Only. Compliance or noncompliance by one or more Respondents with any provision of this Order will not excuse or justify noncompliance by any other Respondent.

Respondents will ensure that their contractors, subcontractors, and representatives comply with this Order. Respondents will be responsible for any noncompliance with this Order.

III. FINDINGS OF FACT

Based on available information, including the Administrative Record in this matter, U.S. EPA hereby finds that:

1. The Master Metals Site is comprised of both the MMI Facility and a nearby residential property area, the Holmden Properties, where Master Metals lead-bearing materials were deposited as fill.
2. The MMI Facility is located in the "flats" area of downtown Cleveland, in an industrialized sector of the City. This property encompasses 4.3 acres. It is bordered on two

sides by railroad tracks, with an LTV Steel facility located immediately to the east and south. The Cuyahoga River is located approximately 1,500 feet to the east. A playground and athletic field are located approximately 1,500 feet to the west and the nearest residential area begins approximately 2,000 feet to the northwest.

3. The Holmden Properties are located in a residential neighborhood, atop a hillside overlooking the flats. These properties encompass one-half acre. They are surrounded on the north, east and west by continuing residential areas and on the south and southeast by industrial areas located at the bottom of the hillside.
4. Persons, including but not limited to the Respondents listed in Attachment A, arranged for disposal or treatment or arranged with a transporter for transport for disposal or treatment of hazardous substances at the Master Metals Site or accepted hazardous substances for transport to disposal at the Master Metals Site.
5. Persons, including but not limited to the Respondents listed in Attachment A, are current or past owners of the Site, or prior to July 1987 arranged for disposal or treatment, or prior to July 1987 arranged with a transporter for transport for disposal or treatment of hazardous substances at the Site, or accepted hazardous substances for transport to disposal or treatment at the Site or at the Holmden Properties.
6. Respondent NL Industries, Inc. ("NL") initially constructed the MMI Facility in 1932, building it on slag fill. NL owned and operated the MMI Facility as a secondary lead smelter, producing lead alloys from lead-bearing dross and lead scrap materials. NL also engaged in battery cracking as part of its operations.
7. Master Metals purchased the MMI Facility in 1979. Master Metals thereafter continued to run the MMI Facility as a secondary lead smelter, receiving lead-bearing materials from off-Site sources. The lead-bearing feed material received by Master Metals was classified and regulated under the Resource Conservation and Recovery Act ("RCRA"), 42 U.S.C. §§ 6901 et seq., as "D008" hazardous waste. In its operations, Master Metals used rotary and pot furnaces to convert these lead-bearing materials into lead ingots. Each furnace used by Master Metals contained a baghouse, a pollution screening structure that collected

particulate matter from the furnace. The collected dust comprised approximately 60 percent lead. The sludge remaining in the furnaces after smelting was classified and regulated under RCRA as "K069" hazardous waste.

8. By-products from the smelting operation included furnace flux, slag, dross, baghouse fines and furnace sludge. Excluding slag, most of the material was recycled back into the furnaces. Slag was tested and disposed of off-site. Cooling water was diverted to the City of Cleveland sewer system. Finished lead ingots were stored in the roundhouse at the north end of the property prior to shipment off-site.
9. Master Metals had a long history of non-compliance with various state and federal environmental, health and safety laws, as well as a history of poor operating practices; releases of hazardous materials to the environment, including the MMI Facility property, have been documented.
10. On November 19, 1980, Master Metals filed a "Part A permit" pursuant to RCRA, thereby obtaining "interim status" under RCRA to operate certain of the MMI Facility's waste piles and treatment units, as well as a container-based storage area.
11. Master Metals filed for Chapter 11 bankruptcy on January 11, 1982, in the United States Bankruptcy Court for the Northern District of Ohio. It subsequently went into reorganization. Prior to November 8, 1985, Master Metals submitted a Part B RCRA application. However, on November 8, 1985, the hazardous waste piles at the MMI Facility that contained lead-bearing dusts lost interim status for failure to comply with financial assurance requirements of 40 C.F.R. Part 265, Subpart H.
12. The United States filed a complaint for violations of RCRA on June 15, 1987, in the United States Bankruptcy Court for the Northern District of Ohio, seeking closure of the D008/K069 waste piles and compliance with RCRA financial responsibility requirements. On September 4, 1987, Master Metals and the United States entered a Stipulation to resolve these RCRA violations.
13. In the late summer of 1987, agents or employees of Master Metals deposited lead-bearing materials from the MMI Facility at the Holmden Properties as fill. These same agents or employees of Master Metals dumped some lead-

bearing materials from the MMI Facility over the edge of the Holmden Properties hillside.

14. In August 1987, Master Metals submitted a partial closure plan to the United States that included procedures to close the D008 and K069 waste piles. Master Metals was to submit an additional closure plan to address all other regulated solid waste management units at a later date. As part of the partial closure plan, Master Metals sampled subsurface soil from the battery storage area waste pile. The soil in this area contained cadmium and lead, but was not considered hazardous according to the U.S. EPA's Environmental Profile ("EP") toxicity criteria. Groundwater between three and ten feet below ground surface contained concentrations of lead.
15. On January 15, 1990, Master Metals entered into a Consent Decree with the United States to resolve continuing RCRA violations. This Consent Decree required, among other things, that Master Metals properly track all hazardous waste at the MMI Facility; submit annual reports to State of Ohio's Environmental Protection Agency ("Ohio EPA"); cease battery cracking at the MMI Facility; conduct an investigation to determine subsurface and groundwater conditions at the MMI Facility; characterize waste at the MMI Facility; store the waste properly; close the waste piles containing hazardous waste in accordance with an approved RCRA closure plan; establish closure trust funds or other authorized mechanisms; fund those mechanisms in compliance with RCRA requirements; and establish RCRA required financial liability coverage.
16. Between January 15, 1990, and August 17, 1990, Master Metals accumulated over 1,500 alleged violations of the Consent Decree, spanning 19 decree provisions. Master Metals also committed additional RCRA permit violations during this period, and continued to demonstrate noncompliance with other health and safety standards. These violations included poor handling and control of toxic waste by Master Metals, such that toxic waste remained exposed to the environment at the MMI Facility.
17. In April 1990, Master Metals submitted to the U.S. EPA a revised RCRA "Part B permit" application for closure of various solid waste management units.
18. In August 1990, the United States filed a motion for civil contempt in the District Court for the Northern

District of Ohio regarding Master Metals's Consent Decree violations. The Court denied that motion, granting Master Metals six months to achieve compliance. The United States filed the motion for contempt again in January 1991 with the same result. In May 1991, the Court granted the motion, requiring Master Metals to cease operations in July 1991. However, the Court reconsidered this motion in June and denied the plaintiff government's relief.

19. In addition, on November 9, 1990, the United States demanded by letter \$2,286,500 from Master Metals in stipulated penalties for Master Metals Consent Decree violations from January 15, 1990, to August 17, 1990. On June 26, 1992, the United States reached its final determination on these stipulated penalties for Master Metals, reducing Master Metals's stipulated penalty to \$1,593,000. Master Metals appealed this determination to the District Court for the Northern District of Ohio pursuant to the Decree's provision on dispute resolution. The District Court, however, never ruled on the penalties. The United States filed a motion to dismiss in October 1996 on the grounds of mootness, which the Court granted in an October 29, 1996 Order.
20. In December 1990, Master Metals contracted with Compliance Technologies, a consulting firm, to install and sample groundwater monitoring wells on the Master Metals Site. Analytical results from the four monitoring wells indicated that the surrounding groundwater was contaminated at levels greater than the maximum contaminant levels (MCLs) for lead and cadmium established under the Safe Drinking Water Act, 42 U.S.C. § 300f et seq.
21. Analysis of MMI Facility soil samples for pH levels and total metals by a U.S. EPA-approved laboratory revealed that the MMI Facility's soil contained elevated levels of barium, cadmium, chromium, lead and nickel. The southern portion of the MMI Facility near the drum storage area contained concentrations of lead exceeding 10,000 parts per million. Elevated lead levels were also discovered near the battery cracking area.
22. In August 1991, Ohio EPA collected samples of raw materials from the Master Metals rotary furnace and two waste bins as part of the Consent Decree requirements. These samples contained lead concentrations as high as 5,349 mg/l.

23. Prior to September 1991, the occupants of 1157 Holmden Avenue at the Holmden Properties contacted Ohio EPA, stating that they believed that Master Metals fill material deposited on their property constituted hazardous waste. The occupants believed that the fill material was hazardous waste because of its distinctive odor and color, because vegetation died and would not grow in the filled area, and because their daughter's feet burned when she walked over the filled area in her bare feet.
24. On September 17, 1991, Ohio EPA began soil sampling at the Holmden Properties. Analysis of these samples by a U.S. EPA approved laboratory showed significant levels of lead and cadmium. Ohio EPA required Master Metals to remove contaminated soils from the Holmden Properties. In March 1992, after the clean-up, Ohio EPA sampled again the soil at the Holmden Properties and discovered additional contamination. Lead was detected in concentrations as high as 7,210 ppm in Holmden Properties soils.
25. In July 1992, U.S. EPA contracted with an outside technical assistance team (TAT) to collect soil samples on and around the MMI Facility property to determine if the MMI Facility contaminants were subject to airborne transport. Analysis of these samples for RCRA metals and Toxicity Characteristic Leachate Procedure (TCLP) metals by a U.S. EPA-approved laboratory revealed that TCLP lead was present in concentrations more than 200 times greater than the RCRA regulatory level of 5 mg/l, at all sample location points except for one MMI Facility location and one location off of the MMI Facility. MMI Facility soil samples indicated the presence of TCLP arsenic and cadmium, with one location testing at 115,000 ppm for lead. Surface samples collected from off of the MMI Facility near both the Valleyview Apartments complex, which is 1,500 feet northwest of the Facility, and near the Tremont Valley Park which is 2,000 feet northwest of the Facility, were found to contain lead concentrations ranging from 148 to 1,850 ppm. The source of this latter lead contamination has not been conclusively traced to the MMI Facility.
26. Three ambient air monitors were installed by the Ohio EPA near the facility property in January of 1992. During the first two quarters of 1992, air samples collected from the station immediately downwind of Master Metals revealed exceedances of the Clean Air Act's National Ambient Air Quality Standards ("NAAQS") for lead, 42 U.S.C. §§ 7401 et seq. In April and May 1992, four more NAAQS violations were

recorded. In July 1992, Master Metals installed a sprinkler system in an attempt to prevent airborne lead from migrating off the MMI Facility property.

27. On August 3, 1992, Ohio EPA ordered an immediate 30-day shut down of the MMI Facility because of Master Metals's "life-threatening" violations of the NAAQS for lead. During Master Metals's shutdown, downwind ambient air monitoring data collected by Ohio EPA registered lead levels in violation of the NAAQS for lead on every day except one. An unknown portion of these NAAQS violations were due to lead-laden MMI Facility dust migrating off of the MMI Facility via prevailing winds. To minimize the effects of wind-blown MMI Facility dust, on September 9, 1992, Master Metals directed a thorough cleaning of the MMI Facility.
28. In December 1992, Master Metals removed additional contaminated soils from the Holmden Properties as ordered by Ohio EPA. After this excavation, Master Metals collected additional soil samples at the Holmden Properties. Analysis of these samples showed elevated levels of lead as high as 57,000 ppm.
29. On August 5, 1993, the Ohio EPA director ordered Master Metals to cease operating the MMI Facility until it could demonstrate compliance. Despite the shutdown of the MMI Facility's furnaces on this date, a U.S. EPA downwind air monitoring station routinely detected elevated lead concentrations as much as 500 times greater than the upwind concentrations and 33 times the NAAQS quarterly average. An unknown portion of these NAAQS violations were due to the lead-laden MMI Facility dust migrating off of the MMI Facility property via prevailing winds.
30. Shortly after Master Metals was shut down, Bank One of Akron, Ohio, took possession of all of Master Metals's cash collateral and accounts receivable.
31. After Master Metals's shutdown, Master Metals and U.S. EPA continued negotiations to resolve Master Metals's RCRA noncompliance. As part of these negotiations, Master Metals and Mr. Mickey, the now-deceased former President of Master Metals, provided financial information to U.S. EPA.
32. On March 28, 1995, U.S. EPA's RCRA Division referred the Master Metals Site to CERCLA for cleanup. In an August 22, 1995 letter, Master Metals withdrew all permits still in effect regarding its operation, effectively terminating its

ability to legally treat, store or dispose of hazardous waste at the MMI Facility.

33. The occupants of 1157 Holmden Avenue at the Holmden Properties were unable to ever return to their home. The house on the property was vandalized during its vacancy, and later damaged by arson. The City of Cleveland condemned the house on August 18, 1995. On February 22, 1996, the City demolished it.
34. Throughout 1995 and 1996, vandals and scavengers visited the MMI Facility on an intermittent basis. Further, in 1995 or 1996, Master Metals partially demolished one of the MMI Facility structures, leaving piles of rubble, girders and sheet metal standing around the structure's remains.
35. On April 9, 1997, additional Site investigation began at the Holmden Properties. This investigation included sampling which revealed that the Holmden Properties contained approximately 2,000-3,000 cubic yards of lead-impacted materials exceeding the 400 ppm default cleanup criteria set for that investigation. Lead levels as high as 8,350 ppm were detected.
36. Fifty-three potentially responsible parties (the "Smelter Respondents") signed an Administrative Order by Consent for the Master Metals Site, which became effective April 17, 1997, ("Smelter Order"). The Smelter Order required the Smelter Respondents to conduct a time-critical removal action in Phase I. In Phase II the Smelter Order required the Smelter Respondents to complete an Engineering Evaluation and Cost Analysis ("EE/CA") for a non-time-critical removal action for the MMI Facility, pursuant to the National Contingency Plan ("NCP"), 40 C.F.R. Part 300, as amended, and the Superfund Accelerated Cleanup Model ("SACM") guidance. These removal actions were required to abate an imminent and substantial endangerment to the public health, welfare or the environment that may have been presented by the actual or threatened release of hazardous substances at or from the MMI Facility. This order also required the Smelter Respondents in Phase II to prepare an EE/CA report of alternative response actions pursuant to 40 C.F.R. §300.415 (b)(4)(i), and the SACM guidance, to address the remaining environmental concerns at the MMI Facility.
37. On May 13, 1997, the Smelter Respondents submitted a Phase I time-critical removal action workplan for the MMI

Facility to the U.S. EPA for approval. In Phase I, the Smelter Respondents performed the following time-critical removal actions:

- a. Analysis and mapping of waste materials and contamination at the MMI Facility for removal purposes;
- b. Long-term securing of the MMI Facility against trespassers through the use of fences, signs and other devices, as necessary;
- c. Excavation, demolition, consolidation, and/or removal of highly contaminated buildings, structures, soils, loose waste materials, demolition debris, machinery, garbage, dusts, post-industrial debris and office or industrial equipment where such actions reduced the spread of, or direct contact with, the contamination;
- d. Removal of drums, barrels, tanks, or other bulk containers that contained or may have contained hazardous substances or pollutants or contaminants where such actions reduced the likelihood of spillage or of exposure to humans, animals or the food chain; and
- e. Containment, treatment, disposal, or incineration of hazardous materials, where such action was necessary to reduce the likelihood of human, animal or food chain exposure.

38. On August 8, 1997, the Smelter Respondents submitted the Phase II EE/CA workplan for the MMI Facility to the U.S. EPA for approval. Phase II involved preparing an EE/CA Report identifying and analyzing alternative response actions necessary to complete the non-time critical removal action. The EE/CA was to be consistent with U.S. EPA's guidance entitled, "Guidance on Conducting Non-Time Critical Removal Actions Under CERCLA", EPA/540-R-93-057, Publication 9360.32, dated August 1993.

39. On October 1, 1997, the Smelter Respondents submitted the EE/CA sampling plan for U.S. EPA's approval.

40. On October 23, 1997, six potentially responsible parties ("Holmden Respondents") signed an Administrative Order by Consent for the Holmden Properties ("Holmden Order"). The Holmden Order required the Holmden Respondents

to conduct a time-critical removal action at the Holmden Properties pursuant to the NCP and SACM guidance, to abate an imminent and substantial endangerment to the public health, welfare or the environment that may have been presented by the actual or threatened release of hazardous substances at or from the Holmden Properties.

41. On October 15, 1997, the Holmden Respondents submitted a plan of remediation activities for U.S. EPA's approval.
42. On January 19, 1998, the Smelter Respondents submitted the EE/CA data report for the MMI Facility for U.S. EPA's approval.
43. On February 6, 1998, the Holmden Respondents submitted a final report for the removal activities at the Holmden Properties. The Holmden Respondents treated the excavated contaminated soils to below current regulatory levels and below the Land Disposal Restriction level of 0.75 mg/L TCLP for lead. After the removal, the Holmden Respondents restored the Holmden Properties to the properties' original condition including revegetation.
44. On April 24, 1998, the Smelter Respondents submitted the final report for the Phase I time-critical removal activities at the MMI Facility. The Smelter Respondents performed the following actions:
 - a. Analyzed and mapped all waste materials and contamination for removal purposes, delineating the location of all waste materials and the extent of contaminant toxicity and potential for migration;
 - b. Secured the MMI Facility against trespassers through the use of fences, signs and other devices, as deemed necessary;
 - c. Excavated, demolished, consolidated and removed highly contaminated buildings, structures, soils, loose waste materials, loose industrial by-products, construction materials, demolition debris, machinery, garbage, dusts, post-industrial debris and office or industrial equipment;
 - d. Removed drums, barrels, tanks, and other bulk containers that contained hazardous substances or pollutants or contaminants; and

- e. Contained, treated, disposed and incinerated hazardous materials.

Removal activities involved characterizing and removing non-hazardous materials and removing or treating and disposing of hazardous materials. During the course of this project the Smelter Respondents' contractor handled 4,800 cubic yards of solid non-hazardous waste; 500 cubic yards of brick/concrete special waste; 21 tons of asbestos containing material; 1,160 cubic yards of K069, D006, D008 waste; 3,600 cubic yards of chromium trioxide; and over 200 bottles of laboratory chemicals. Over 3,000 gallons of liquid wastes were characterized through the course of this removal.

The result of this time-critical removal action was that all highly contaminated structures were demolished; hazardous materials were characterized and disposed of accordingly; and the MMI Facility was secured to prevent unauthorized entry.

- 45. On November 23, 1998, the Smelter Respondents submitted the final EE/CA report for the Master Metals Site for U.S. EPA's approval. The Smelter Order Phase II involved completing an EE/CA Report outlining alternative response actions in accordance with the Statement of Work (SOW) attached to the Smelter Order. This SOW required completion of the following tasks:
 - 1. EE/CA Work Plan
 - 2. EE/CA Support Sampling Plan
 - 3. EE/CA Support Sampling
 - 4. EE/CA Data Report
 - 5. EE/CA and Report
- 46. On November 23, 1998, U.S. EPA reviewed and submitted comments on the revised risk assessment and derivation of the risk based remediation goal for lead documented in the November 23, 1998, Revised EE/CA for the Master Metals Site.
- 47. On December 10, 1998, U.S. EPA and the Ohio EPA reviewed the revised EE/CA, dated November 23, 1998, for the Master Metals Site. U.S. EPA considered the EE/CA complete and approved it.
- 48. On February 23, 1999, U.S. EPA submitted a notice of a public comment period on the EE/CA for the clean-up of lead contaminated soils at the MMI Facility, and notice of a March 18, 1999, public meeting on that subject, for

publication in the Cleveland Plain Dealer. U.S. EPA's recommended alternative included:

- a. Excavation of off-site contaminated soils;
 - b. Consolidation of contaminated soils on site;
 - c. Cover of contaminated areas with two feet of clean fill and revegetation;
 - d. Operation and maintenance of the cover for 30 years; and
 - e. Deed restrictions to minimize potential exposure to contaminated soil.
49. In March 1999, U.S. EPA released a fact sheet to the citizens of Cleveland and interested stakeholders regarding the EE/CA and U.S. EPA's proposed clean-up plan.
50. On March 18, 1999, U.S. EPA conducted a public meeting regarding the EE/CA and U.S. EPA's proposed clean-up plan. The transcript of the public meeting is in the Administrative Record.
51. On March 31, 1999, U.S. EPA extended the public comment period regarding the EE/CA and U. S. EPA's proposed clean-up plan, for an additional 30 days.
52. In April 1999, U.S. EPA approved the final community involvement plan for the MMI Facility.
53. On May 6, 1999, Ohio EPA approved the City of Cleveland's request for an Urban Setting Designation for the "Industrial Valley Area" within the City of Cleveland. This area includes the Master Metals Site, in the event it is eligible for Ohio EPA's Voluntary Action Program.
54. On August 19, 1999, U. S. EPA identified the community in the area of the MMI Facility as an environmental justice (EJ) area, with the percentage of low income or minority residents greater than or equal to two times the state average. Region 5's EJ criteria percentages for the State of Ohio are a minority population of 13% or greater and a low income population of 60% or greater. In the area near the MMI facility, 26% of the population is minority and 74.2% is low income.

55. On September 30, 1999, U.S. EPA signed an Action Memorandum for a non-time-critical removal action at the MMI Facility.
56. On April 12, 2000, NL surveyed the MMI Facility to facilitate redevelopment by prospective purchasers Bredt-Zanick, LLC and the Northern Ohio Lumber and Timber Company ("NOLTCO") (together the "Prospective Purchasers").
57. On September 22, 2000, U.S. EPA issued a contingent amended Action Memorandum, which changed the project scope from a soil cover cap to an asphalt cap. U.S. EPA did this to accommodate the Prospective Purchasers' planned redevelopment of the MMI Facility. Pursuant to this amended Action Memorandum, if transfer to the Prospective Purchasers does not occur within 60 days of the effective date of this Order as required in Section V, paragraph 2, the change of the project scope will be invalid and the original remedy will be constructed on the Master Metals Site.
58. On May 8, 2001, the Prospective Purchaser Agreement ("PPA") with the Prospective Purchasers became effective. That PPA requires the prospective purchasers to undertake all operation and maintenance for the MMI Facility. Therefore, the prospective purchasers are Limited Respondents for Operation and Maintenance Only. As such, the Prospective Purchasers' only obligation of this Administrative Order is to perform operation and maintenance pursuant to Section V. The Limited Respondents for Operation and Maintenance Only shall have no other obligations under this Order, including, but not limited to the obligation to pay costs under Section VII of this Administrative Order.

IV. CONCLUSIONS OF LAW AND DETERMINATIONS

Based on the Findings of Fact set forth above, and the Administrative Record supporting these removal actions, U.S. EPA has determined that:

1. The MMI Facility is a "facility" as defined by Section 101(9) of CERCLA, 42 U.S.C. § 9601(9).
2. Lead, cadmium, chromium, barium and nickel are "hazardous substances" as defined by Section 101(14) of CERCLA, 42 U.S.C. § 9601(14).
3. Each Respondent is a "person" as defined by Section 101(21) of CERCLA, 42 U.S.C. § 9601(21).

4. All Respondents are either persons who at the time of disposal of any hazardous substances owned or operated the MMI Facility, or who arranged for disposal or treatment or transport for disposal or treatment of hazardous substances at the MMI Facility. Each Respondent therefore is liable under Section 107(a) of CERCLA, 42 U.S.C. § 9607(a).
5. The Prospective Purchasers are Limited Respondents for Operation and Maintenance Only, and their only obligations under this Order are to complete the operation and maintenance required by the approved Operation and Maintenance Work Plan discussed in section 2.4 below, Task 6 of the SOW, and Section V of the PPA.
6. The conditions described in the Findings of Fact above constitute an actual or threatened "release" of a hazardous substance from the facility into the "environment" as defined by Sections 101(8) and (22) of CERCLA, 42 U.S.C. §§ 9601(8) and (22).
7. The conditions present at the MMI Facility constitute a threat to public health, welfare, or the environment based upon the factors set forth in Section 300.415(b)(2) of the National Oil and Hazardous Substances Pollution Contingency Plan, as amended ("NCP"), 40 C.F.R. § 300.415(b)(2). These factors include, but are not limited to, the following:
 - a. Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances, pollutants or contaminants; this factor is present at the MMI Facility due to the existence of lead contaminated soils.
 - b. High levels of hazardous substances or pollutants or contaminants in soils are largely at or near the surface, that may migrate; this factor is present at the MMI Facility due to the existence of lead contaminated soils.
8. The actual or threatened release of hazardous substances from the MMI Facility may present an imminent and substantial endangerment to the public health, welfare, or the environment within the meaning of Section 106(a) of CERCLA, 42 U.S.C. § 9606(a).
9. The removal actions required by this Order, if properly performed under the terms of this Order, are consistent with the NCP. The removal actions required by this Order are

necessary to protect the public health, welfare, or the environment.

V. ORDER

Based upon the foregoing Findings of Fact, Conclusions of Law and Determinations, it is hereby ordered and agreed that Respondents will comply with the following provisions, including but not limited to all documents attached to or incorporated into this Order, and perform the following actions:

1. Designation of Contractor, Project Coordinator, and Remedial Project Manager

Respondents will perform the removal actions required by this Order themselves, or retain one or more contractors to implement the removal actions. Respondents will notify U.S. EPA of Respondents' qualifications or the name and qualifications of such contractor(s), whichever is applicable, within five business days of the effective date of this Order. Respondents will also notify U.S. EPA of the name and qualifications of any other contractors or subcontractors retained to perform work under this Order at least five business days prior to commencement of such work. U.S. EPA retains the right to disapprove of the Respondents or any of the contractors and/or subcontractors retained by the Respondents. If U.S. EPA disapproves a selected contractor, Respondents will retain a different contractor within two business days following U.S. EPA's disapproval and will notify U.S. EPA of that contractor's name and qualifications within three business days of U.S. EPA's disapproval.

Within five business days after the effective date of this Order, the Respondents will designate a Project Coordinator who will be responsible for administration of all the Respondents' actions required by the Order. Respondents will submit the designated coordinator's name, address, telephone number, and qualifications to U.S. EPA. To the greatest extent possible, the Project Coordinator will be present on-site or readily available during site work. U.S. EPA retains the right to disapprove of any Project Coordinator named by the Respondents. If U.S. EPA disapproves a selected Project Coordinator, Respondents will retain a different Project Coordinator within three business days following U.S. EPA's disapproval and will notify U.S. EPA of that person's name and qualifications within four business days of U.S. EPA's disapproval. Receipt by Respondents' Project Coordinator of any notice or communication from U.S. EPA relating to this Order will constitute receipt by all Respondents.

The U.S. EPA has designated Gwendolyn Massenburg of the Remedial Response Branch, Region V, as its Remedial Project Manager ("RPM"). Respondents will direct all submissions required by this Order to the RPM at 77 West Jackson Boulevard, SR-6J, Chicago, Illinois, 60604-3590, by certified or express mail. Respondents will also send a copy of all submissions to Susan Prout, Associate Regional Counsel, 77 West Jackson Boulevard, C-14J, Chicago, Illinois, 60604-3590, and to the Ohio EPA, attention: Sheila Abraham, Division of Emergency and Remedial Response, 2110 East Aurora Road, Twinsburg, OH 44087. All Respondents are encouraged to make their submissions to U.S. EPA on recycled paper (which includes significant post consumer waste paper content where possible) and using two-sided copies.

U.S. EPA and Respondents will have the right, subject to the immediately preceding paragraph, to change their designated Project Coordinator, RPM or Project Counsel. U.S. EPA will notify the Respondents, and Respondents will notify U.S. EPA, as early as possible before such a change is made, but in no case less than twenty four hours before such a change. The initial notification may be made orally but it will be promptly followed by a written notice.

2. Work to Be Performed

Respondents will perform the actions set forth below.

Respondents will perform, at a minimum, the following removal actions:

1. Remove site fencing.
2. Excavate perimeter soil (eastern, western, and southern boundary) to a depth to obtain a total lead concentration of 1000mg/kg (ppm) or to the depth where the original slag is reached to reduce the likelihood of human, animal or food chain exposure.
3. Conduct a treatability study of all material excavated to determine if treatment of this material is a viable option. Treatment of this material is required when the excavated soil does not pass TCLP. Respondents will provide a copy of the treatability study to U. S. EPA prior to consolidation of the soils. See Section 1.1 of the Statement of Work for treatment of the excavated soils.

4. Perform treatment (if necessary) in secondary containers or cans using the lead stabilization process. Treatment will satisfy the Land Disposal Restriction prior to consolidation. See section 1.1 of the Statement of Work for treatment requirements. Respondents will submit a post-treatment report to U.S. EPA prior to consolidating the material on site.
5. Backfill all areas excavated or sub-graded areas to grade with clean soil. The existing property lines will serve as center and highest elevation point of the graded slope.
6. Consolidate excavated treated soils and Holmden Properties treated soils on-site, underneath an impermeable geomembrane, or appropriately dispose of the material in a hazardous waste landfill or in a solid waste landfill.
7. The site must be capped with the asphalt cover system, engineered (with the necessary thickness and load-bearing capacity) to permit appropriate reuse, as specified in the SOW.
8. Provide specifics on the cover system and on the areas under the cover system (including a cross section and designation of the areas where the treated soils will be placed) in the remedial design plan for U.S. EPA and Ohio EPA approval.
9. Repair or recondition the cracked concrete (defined as fully penetrating the existing concrete surfaces with a width greater than $\frac{1}{2}$ inch) portions of the MMI Facility by sealing the cracks followed by scarification or encapsulation of the concrete surface.
10. Eliminate dangers associated with open pits and sumps on the MMI Facility.
11. Replace the fence on the MMI Facility as specified in the SOW.
12. Perform required operation and maintenance as required for the next thirty years. The particular obligations of the Respondents and the Limited Respondent for Operation and Maintenance Only are set forth in Section V.2.4 below.

2.1 Work Plan and Implementation

Attached to this Order for the Respondents to follow is a Statement of Work.

Within sixty business days after the effective date of this Order, the Respondents will submit to U.S. EPA for approval, a draft Work Plan for performing the removal activities set forth above. The draft Work Plan will provide a description of, and an expeditious schedule for, the actions required by this Order.

U.S. EPA may approve, disapprove, require revisions to, or modify the draft Work Plan. If U.S. EPA requires revisions, Respondents will submit a revised draft Work Plan within seven business days of receipt of U.S. EPA's notification of required revisions. Respondents will implement the Work Plan as finally approved in writing by U.S. EPA in accordance with the schedule approved by U.S. EPA. Once approved, or approved with modifications, the Work Plan, the schedule, and any subsequent modifications will be fully enforceable under this Order. Respondents will notify U.S. EPA at least forty eight hours prior to performing any on-site work pursuant to the U.S. EPA approved Work Plan. Respondents will not commence or undertake any removal actions at the Site without prior U.S. EPA approval.

2.2 Health and Safety Plan

Within thirty business days after the effective date of this Order, the Respondents will submit for U.S. EPA review and comment a plan that ensures the protection of the public health and safety during the performance of on-site work under this Order. This plan will comply with applicable Occupational Safety and Health Administration ("OSHA") regulations found at 29 C.F.R. Part 1910. If U.S. EPA determines it is appropriate, the plan will also include contingency planning. Respondents will incorporate all changes to the plan recommended by U.S. EPA, and implement the plan during the pendency of the removal action.

2.3 Quality Assurance and Sampling

All sampling and analysis performed pursuant to this Order will conform to U.S. EPA direction, approval, and guidance regarding sampling, quality assurance/quality control ("QA/QC"), data validation, and chain of custody procedures. Respondents will ensure that the laboratory used to perform the analysis participates in a QA/QC program that complies with U.S. EPA guidance.

Upon request by U.S. EPA, Respondents will have such a laboratory analyze samples submitted by U.S. EPA for quality assurance monitoring. Respondents will provide to U.S. EPA the quality assurance/quality control procedures followed by all sampling teams and laboratories performing data collection and/or analysis. Respondents will also ensure provision of analytical tracking information consistent with OSWER Directive No. 9240.0-2B, "Extending the Tracking of Analytical Services to PRP-Lead Superfund Sites."

Upon request by U.S. EPA, Respondents will allow U.S. EPA or its authorized representatives to take split and/or duplicate samples of any samples collected by Respondents or their contractors or agents while performing work under this Order. Respondents will notify U.S. EPA not less than three business days in advance of any sample collection activity. U.S. EPA will have the right to take any additional samples that it deems necessary.

2.4 Post-Removal Site Control/Operation and Maintenance

1. In accordance with the Work Plan schedule, or as otherwise directed by the RPM, Respondents will submit a proposal for post-removal site control, consistent with Section 300.415(1) of the NCP, 40 C.F.R. §300.415(1), and OSWER Directive 9360.2-02. The Limited Respondents for Operation and Maintenance Only, are primarily responsible for completing the post-removal site control and Operation and Maintenance of the MMI Facility. The Respondents are secondarily responsible for operation and maintenance, except that they are not responsible for maintaining the cover system under any circumstances.
- b. The Respondents will also make a payment of \$9600 to satisfy their obligation to perform Operation and Maintenance of the cover system.
- c. Respondents and Limited Respondents for Operation and Maintenance Only will provide U.S. EPA with documentation of all post-removal site control arrangements.

2.5 Reporting

Respondents will submit a monthly written progress report to U.S. EPA concerning actions undertaken pursuant to this Order, beginning the 10th day of each month following the date of U.S. EPA's approval of the Work Plan, until termination of this

Order, unless otherwise directed in writing by the RPM. These reports will describe all significant developments during the preceding period, including the work performed and any problems encountered, analytical data received during the reporting period, and developments anticipated during the next reporting period, including a schedule of work to be performed, anticipated problems, and planned resolutions of past or anticipated problems.

Any Respondent that owns any portion of the Site will, at least thirty days prior to the conveyance of any interest in real property at the Site, give written notice of this Order to the transferee and written notice of the proposed conveyance to U.S. EPA and the State. The notice to U.S. EPA and the State will include the name and address of the transferee. The party conveying such an interest will require that the transferee will provide access as described in Section V.3 (Access to Property and Information).

2.6 Final Report

Within sixty calendar days after completion of all removal actions required under this Order, the Respondents will submit for U.S. EPA review a final report summarizing the actions taken to comply with this Order. The final report will conform to the requirements set forth in Section 300.165 of the NCP, 40 C.F.R. §300.165. The final report will also include a good faith estimate of total costs incurred in complying with the Order, a listing of quantities and types of materials removed off-site or handled on-site, a discussion of removal and disposal options considered for those materials, a listing of the ultimate destinations of those materials, a presentation of the analytical results of all sampling and analyses performed, and accompanying appendices containing all relevant documentation generated during the removal action (e.g., manifests, invoices, bills, contracts, and permits).

The final report will also include the following certification signed by a person who supervised or directed the preparation of that report:

Under penalty of law, I certify that, to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of this report, the information submitted is true and complete.

3. Access to Property and Information

Limited Respondents for Operation and Maintenance Only will

use best efforts to provide or obtain access to the MMI Facility and off-site areas to which access is necessary to implement this Order, and will provide access to all records and documentation related to the conditions at the MMI Facility and the actions conducted pursuant to this Order. Such access will be provided to U.S. EPA employees, contractors, agents, consultants, designees, representatives, and State of Ohio representatives. These individuals will be permitted to move freely at the MMI Facility and appropriate off-site areas in order to conduct actions which U.S. EPA determines to be necessary. Respondents will submit to U.S. EPA, upon request, the results of all sampling or tests and all other validated data generated by Respondents or their contractors, or on the Respondents' behalf during implementation of this Order.

Where work under this Order is to be performed in areas owned by or in possession of someone other than Respondents, Limited Respondents for Operation and Maintenance Only will use their best efforts to obtain all necessary access agreements within thirty calendar days after the effective date of this Order, or as otherwise specified in writing by the RPM. Respondents will immediately notify U.S. EPA if, after using their best efforts, they are unable to obtain such agreements. Respondents will describe in writing their efforts to obtain access. Upon Respondents' written request, U.S. EPA may then assist Respondents in gaining access, to the extent necessary to effectuate the response actions described herein, using such means as U.S. EPA deems appropriate. Respondents will reimburse the United States for all costs and attorneys' fees incurred by the United States in obtaining such access.

4. Record Retention, Documentation, Availability of Information

Respondents will preserve all documents and information, in their possession or the possession of their contractors, subcontractors or representatives, relating to work performed under this Order, or relating to the hazardous substances found on or released from the MMI Facility, for six years following completion of the removal actions required by this Order. At the end of this six year period and at least sixty days before any document or information is destroyed, Respondents will notify U.S. EPA that such documents and information are available to U.S. EPA for inspection, and upon request, will provide the originals or copies of such documents and information to U.S. EPA. In addition, Respondents will provide documents and information retained under this Section at any time before expiration of the six year period at the written request of U.S. EPA. Any information that Respondents are required to provide or maintain

pursuant to this Order is not subject to the Paperwork Reduction Act of 1995, 44 U.S.C. §3501 et seq.

5. Off-Site Shipments

All hazardous substances, pollutants or contaminants removed off-site pursuant to this Order for treatment, storage or disposal will be treated, stored, or disposed of at a facility in compliance, as determined by U.S. EPA, with the U.S. EPA Off-Site Rule, 40 C.F.R. §300.440, 58 Fed. Reg. 49215 (Sept. 22, 1993).

6. Compliance With Other Laws

Respondents will perform all actions required pursuant to this Order in accordance with all applicable local, state, and federal laws and regulations except as provided in Section 121(e) of CERCLA, 42 U.S.C. §9621(e), and 40 C.F.R. §300.415(j). In accordance with 40 C.F.R. §300.415(j), all on-site actions required pursuant to this Order will, to the extent practicable, as determined by U.S. EPA, considering the exigencies of the situation, attain applicable or relevant and appropriate requirements under federal environmental or state environmental or facility siting laws.

7. Emergency Response and Notification of Releases

If any incident, or change in Site conditions, during the activities conducted pursuant to this Order causes or threatens to cause an additional release of hazardous substances from the MMI Facility or an endangerment to the public health, welfare, or the environment, the Respondents will immediately take all appropriate action to prevent, abate or minimize such release or endangerment caused or threatened by the release. Respondents will also immediately notify the RPM or, in the event of his/her unavailability, will notify the Regional Duty Officer, Emergency Response Branch, Region V at (312) 353-2318, of the incident or Site conditions. If Respondents fail to respond, U.S. EPA may respond to the release or endangerment and reserve the right to recover costs associated with that response.

Respondents will submit a written report to U.S. EPA within seven business days after each release, setting forth the events that occurred and the measures taken or to be taken to mitigate any release or endangerment caused or threatened by the release and to prevent the reoccurrence of such a release. Respondents will also comply with any other notification requirements, including those in Section 103 of CERCLA, 42 U.S.C. §9603, and Section 304 of the Emergency Planning and Community Right-To-Know

Act, 42 U.S.C. §11004.

8. Institutional Controls

If the MMI Facility, or any other property where access and/or land/water use restrictions are needed to implement this Order, is owned or controlled by persons other than any of the Limited Respondents for Operation and Maintenance Only, Limited Respondents for Operation and Maintenance Only shall use best efforts to secure from such persons:

a. an agreement, enforceable by Respondents, Limited Respondents for Operation and Maintenance Only, and U.S. EPA, to refrain from using the MMI Facility, or such other property, in any manner that would interfere with or adversely affect the integrity or protectiveness of the actions to be implemented pursuant to this Order. Such restrictions include, but are not limited to,

1. Well construction: no person may construct or reconstruct a well on the property without:
 - (a) notifying U.S. EPA and Ohio EPA;
 - (b) determining what specific prohibitions or requirements are applicable to the well;
 - (c) obtaining approval from all relevant authorities and U.S. EPA prior to the construction or reconstruction; and
 - (d) complying with all requirements applicable to the well.
2. Drilling into the cover system: no person may drill or puncture the cover system on the property without:
 - (a) notifying U.S. EPA and Ohio EPA;
 - (b) determining what specific prohibitions or requirements are applicable to the asphalt or soil cover;
 - (c) obtaining approval from all relevant authorities and U.S. EPA prior to the drilling; and
 - (d) maintaining the protectiveness of the asphalt

or soil cover.

3. Restricted activities: no person may undertake the following activities without written permission from U.S. EPA:

- (a) excavating or grading of any portion of the land surface within the current fence line;

- (b) filling in the capped area;

- (c) constructing or installing a building or other structures with a foundation that would sit on or be placed within the cap or cover; or

- (d) using of groundwater for drinking purposes.

b. The execution and recordation in the Recorder's Office of Cuyahoga County, State of Ohio, of an easement, running with the land, that (i) grants a right of access as set forth at Section V.3 of this Order, above; and (ii) grants the right to enforce the land/water use restrictions listed in Section V.8 of this Order, or other restrictions that U.S. EPA determines are necessary to implement, ensure non-interference with, or ensure the protectiveness of the actions to be performed pursuant to this Order. The access rights and/or rights to enforce land/water use restrictions shall be granted to one or more of the following persons, as determined by U.S. EPA: (i) the United States, on behalf of EPA, and its representatives, (ii) the State and its representatives, (iii) the Respondents and their representatives, and/or (iv) other appropriate grantees. Within forty-five days of entry of this Order, the Limited Respondents for Operation and Maintenance Only shall submit to U.S. EPA for review and approval with respect to such property:

1. A draft easement enforceable under the laws of the State of Ohio, free and clear of all prior liens and encumbrances (except as approved by U.S. EPA), and acceptable under the Attorney General's Title Regulations promulgated pursuant to 40 U.S.C. § 255; and

2. A current title commitment or report prepared in accordance with the U.S. Department of Justice Standards for the Preparation of Title Evidence in Land Acquisitions by the United States (1970) (the "Standards").

Within fifteen days of EPA's approval and acceptance of the easement, Limited Respondents for Operation and Maintenance Only

shall update the title search and, if it is determined that nothing has occurred since the effective date of the commitment or report to affect the title adversely, the easement shall be recorded with the Recorder's Office of Cuyahoga County. Within thirty days of the recording of the easement, the Limited Respondents for Operation and Maintenance Only shall provide EPA with final title evidence acceptable under the Standards, and a certified copy of the original recorded easement showing the clerk's recording stamps.

Limited Respondents for Operation and Maintenance Only will immediately notify U.S. EPA if, after using their best efforts, they are unable to obtain such agreements. Limited Respondents for Operation and Maintenance Only will describe in writing their efforts to obtain access. Upon written request U.S. EPA may then assist Limited Respondents for Operation and Maintenance Only in gaining access, to the extent necessary to effectuate the response actions described herein, using such means as U.S. EPA deems appropriate. Limited Respondents for Operation and Maintenance Only will reimburse U.S. EPA for all costs and attorneys' fees incurred by the United States in obtaining such access.

If U.S. EPA determines that land/water use restrictions in the form of state or local laws, regulations, ordinances or other governmental controls are needed to implement this Order's actions, ensure the integrity and protectiveness thereof, or ensure non-interference therewith, Limited Respondents for Operation and Maintenance Only shall cooperate with U.S. EPA's efforts to secure such governmental controls.

VI. AUTHORITY OF THE U.S. EPA REMEDIAL PROJECT MANAGER

The Remedial Project Manager (RPM) will be responsible for overseeing the implementation of this Order. The RPM will have the authority vested in an RPM by the NCP, including the authority to halt, conduct, or direct any work required by this Order, or to direct any other response action undertaken by U.S. EPA or Respondents at the Site. Absence of the RPM from the MMI Facility will not be cause for stoppage of work unless specifically directed by the RPM.

VII. REIMBURSEMENT OF COSTS

Respondents will pay \$62,760 in settlement of all costs that have accrued through January 31, 2001.

In addition, U.S. EPA will send Respondents a bill for "oversight costs" on an annual basis, such bill to include an

Itemized Cost Summary. "Oversight costs" are all costs, including, but not limited to, direct and indirect costs, that the United States incurs in reviewing or developing plans, reports and other items pursuant to this AOC. "Oversight costs" will also include all costs, including direct and indirect costs, incurred by the United States in connection with the Site starting from February 1, 2001.

Respondents will, within thirty calendar days of receipt of a bill, remit a cashier's or certified check for the amount of the bill made payable to the "Hazardous Substance Superfund," to the following address:

U.S. Environmental Protection Agency
Program Accounting & Analysis Section
P.O. Box 70753
Chicago, Illinois 60673

Respondents will simultaneously transmit a copy of the check to the Director, Superfund Division, U.S. EPA Region 5, 77 West Jackson Blvd., Chicago, Illinois, 60604-3590. Payments will be designated as "Response Costs - Master Metals Cleveland Site" and will reference:

the payer's name and address;

the U.S. EPA site identification number 05WB; and

the docket number of this Order.

In the event that any payment is not made within the deadlines described above, Respondents will pay interest on the unpaid balance. Interest is established at the rate specified in Section 107(a) of CERCLA, 42 U.S.C. §9607(a). The interest will begin to accrue on the date of the Respondents' receipt of the bill (or for the \$62,760 due under this Order, on the effective date of this Order). Interest will accrue at the rate specified through the date of the payment. Payments of interest made under this paragraph will be in addition to such other remedies or sanctions available to the United States by virtue of Respondents' failure to make timely payments under this Section.

Respondents may dispute all or part of a bill for Oversight costs submitted under this Order, if Respondents allege that U.S. EPA has made an accounting error, or if Respondents allege that a cost item is inconsistent with the NCP.

If any dispute over costs is resolved before payment is due, the amount due will be adjusted as necessary. If the dispute is not resolved before payment is due, Respondents will pay the full amount of the uncontested costs into the Hazardous Substance Fund

as specified above on or before the due date. Within the same time period, Respondents will pay the full amount of the contested costs into an interest-bearing escrow account. Respondents will simultaneously transmit a copy of both checks to the RPM. Respondents will ensure that the prevailing party or parties in the dispute will receive the amount upon which they prevailed from the escrow funds plus interest within twenty calendar days after the dispute is resolved.

VIII. DISPUTE RESOLUTION

The parties to this Order will attempt to resolve, expeditiously and informally, any disagreements concerning this Order.

If the Respondents object to any U.S. EPA action taken pursuant to this Order, including billings for oversight costs, the Respondents will notify U.S. EPA in writing of their objections within ten calendar days of such action, unless the objections have been informally resolved. This written notice will include a statement of the issues in dispute, the relevant facts upon which the dispute is based, all factual data, analysis or opinion supporting Respondents' position, and all supporting documentation on which such party relies. U.S. EPA will submit its Statement of Position, including supporting documentation, no later than ten calendar days after receipt of the written notice of dispute. In the event that these ten-day time periods for exchange of written documents may cause a delay in the work, they will be shortened upon, and in accordance with, notice by U.S. EPA. The time periods for exchange of written documents relating to disputes over billings for oversight costs may be extended at the sole discretion of U.S. EPA.

An administrative record of any dispute under this Section will be maintained by U.S. EPA. The record will include the written notification of such dispute, and the Statement of Position served pursuant to the preceding paragraph. Upon review of the administrative record, the Director of the Superfund Division, U.S. EPA Region V, will resolve the dispute consistent with the NCP and the terms of this Order.

Respondents' obligations under this Order will not be tolled by submission of any objection for dispute resolution under this Section. Following resolution of the dispute, as provided by this Section, Respondents will fulfill the requirement that was the subject of the dispute in accordance with the agreement reached or with U.S. EPA's decision, whichever occurs.

IX. FORCE MAJEURE

Respondents agree to perform all requirements under this

Order within the time limits established under this Order, unless the performance is delayed by a force majeure. For purposes of this Order, a force majeure is defined as any event arising from causes beyond the control of Respondents or of any entity controlled by Respondents, including but not limited to their contractors and subcontractors, that delays or prevents performance of any obligation under this Order despite Respondents' best efforts to fulfill the obligation. Force majeure does not include financial inability to complete the work or increased cost of performance.

Respondents will notify U.S. EPA orally within twenty-four hours after Respondents become aware of any event that Respondents contend constitutes a force majeure, and in writing within seven calendar days after the event. Such notice will: identify the event causing the delay or anticipated delay; estimate the anticipated length of delay, including necessary demobilization and re-mobilization; state the measures taken or to be taken to minimize the delay; and estimate the timetable for implementation of the measures. Respondents will take all reasonable measures to avoid and minimize the delay. Failure to comply with the notice provision of this Section will be grounds for U.S. EPA to deny Respondents an extension of time for performance. Respondents will have the burden of demonstrating by a preponderance of the evidence that the event is a force majeure, that the delay is warranted under the circumstances, and that best efforts were exercised to avoid and mitigate the effects of the delay.

If U.S. EPA determines a delay in performance of a requirement under this Order is or was attributable to a force majeure, the time period for performance of that requirement will be extended as deemed necessary by U.S. EPA. Such an extension will not alter Respondents' obligation to perform or complete other tasks required by the Order which are not directly affected by the force majeure.

X. STIPULATED AND STATUTORY PENALTIES

For each day, or portion thereof, that Respondents fail to fully perform any requirement of this Order in accordance with the schedule established pursuant to this Order, Respondents will be liable as follows:

<u>Deliverable/Activity</u>	<u>Penalty For Days 1-7</u>	<u>Penalty For More Than 7 Days</u>
Failure to Submit a Draft or Revised Work Plan	\$750/Day	\$2,000/Day

Late Submittal of Progress Reports or Other Miscellaneous Reports/Submittals	\$200/Day	\$500/Day
Failure to Meet any Scheduled Deadline in the Order	\$200/Day	\$500/Day
Failure to Meet of the Operation and Maintenance Requirements, if applicable	\$200/Day	\$500/Day

Upon receipt of written demand by U.S. EPA, Respondents will make payment to U.S. EPA within twenty days and interest will accrue on late payments in accordance with Section VII of this Order (Reimbursement of Costs).

Even if violations are simultaneous, separate penalties will accrue for separate violations of this Order. Penalties accrue and are assessed per violation per day. Penalties will accrue regardless of whether EPA has notified Respondents of a violation or act of noncompliance. The payment of penalties will not alter in any way Respondents' obligations to complete the performance of the work required under this Order. Stipulated penalties will accrue, but need not be paid, during any dispute resolution period concerning the particular penalties at issue. If Respondents prevail upon resolution, Respondents will pay only such penalties as the resolution requires. In its unreviewable discretion, U.S. EPA may waive its rights to demand all or a portion of the stipulated penalties due under this Section. Such a waiver must be made in writing.

Violation of any provision of this Order may subject Respondents to civil penalties of up to \$27,500 per violation per day, as provided in Section 106(b)(1) of CERCLA, 42 U.S.C. §9606(b)(1). Respondents may also be subject to punitive damages in an amount up to three times the amount of any cost incurred by the United States as a result of such violation, as provided in Section 107(c)(3) of CERCLA, 42 U.S.C. §9607(c)(3). Should Respondents violate this Order or any portion hereof, U.S. EPA may carry out the required actions unilaterally, pursuant to Section 104 of CERCLA, 42 U.S.C. §9604, and/or may seek judicial enforcement of this Order pursuant to Section 106 of CERCLA, 42 U.S.C. §9606.

XI. RESERVATION OF RIGHTS

Except as specifically provided in this Order, nothing herein will limit the power and authority of U.S. EPA or the United States to take, direct, or order all actions necessary to protect public health, welfare, or the environment or to prevent, abate, or minimize an actual or threatened release of hazardous substances, pollutants or contaminants, or hazardous or solid waste on, at, or from the Site. Further, nothing herein will prevent U.S. EPA from seeking legal or equitable relief to enforce the terms of this Order. U.S. EPA also reserves the right to take any other legal or equitable action as it deems appropriate and necessary, or to require the Respondents in the future to perform additional activities pursuant to CERCLA or any other applicable law. Except as specifically provided in this Order, Respondents reserve the right to assert any factual or legal position in any action taken by U.S. EPA or the United States under this Article XI.

XII. OTHER CLAIMS

By issuance of this Order, the United States and U.S. EPA assume no liability for injuries or damages to persons or property resulting from any acts or omissions of Respondents. The United States or U.S. EPA will not be a party or be held out as a party to any contract entered into by the Respondents or their directors, officers, employees, agents, successors, representatives, assigns, contractors, or consultants in carrying out activities pursuant to this Order. Each party will bear its own costs and attorneys fees in connection with the action resolved by this Order.

Except as expressly provided in Section XIII (Covenant Not To Sue), nothing in this Order constitutes a satisfaction of or release from any claim or cause of action against the Respondents or any person not a party to this Order, for any liability such person may have under CERCLA, other statutes, or the common law, including but not limited to any claims of the United States for costs, damages and interest under Sections 106(a) or 107(a) of CERCLA, 42 U.S.C. §§9606(a), 9607(a).

This Order does not constitute a preauthorization of funds under Section 111(a)(2) of CERCLA, 42 U.S.C. §9611(a)(2). The Respondents waive any claim to payment under Sections 106(b), 111, and 112 of CERCLA, 42 U.S.C. §§9606(b), 9611, and 9612, against the United States or the Hazardous Substance Superfund arising out of any action performed under this Order. No action or decision by U.S. EPA pursuant to this Order will give rise to any right to judicial review except as set forth in Section 113(h) of CERCLA, 42 U.S.C. §9613(h).

XIII. COVENANT NOT TO SUE

Except as otherwise specifically provided in this Order, upon issuance of the U.S. EPA notice referred to in Section XVII (Notice of Completion), U.S. EPA covenants not to sue Respondents for judicial imposition of damages or civil penalties or to take administrative action against Respondents for any failure to perform removal actions agreed to in this Order except as otherwise reserved herein.

Except as otherwise specifically provided in this Order, in consideration and upon Respondents' payment of the response costs specified in Section VII of this Order, U.S. EPA covenants not to sue or to take administrative action against Respondents under Section 107(a) of CERCLA, 42 U.S.C. §9607(a), for recovery of past and oversight costs incurred by the United States in connection with this removal action and this Order. This covenant not to sue will take effect upon the receipt by U.S. EPA of the payments required by Section VII (Reimbursement of Costs).

These covenants not to sue are conditioned upon the complete and satisfactory performance by Respondents of their obligations under this Order. These covenants not to sue extend only to the Respondents and do not extend to any other person.

XIV. CONTRIBUTION PROTECTION

With regard to claims for contribution against Respondents for matters addressed in this Order, the Parties hereto agree that the Respondents are entitled to protection from contribution actions or claims to the extent provided by Section 113(f)(2) and 122(h)(4) of CERCLA, 42 U.S.C. §§9613(f)(2) and 9622(h)(4).

Nothing in this Order precludes Parties from asserting any claims, causes of action or demands against any persons not parties to this Order for indemnification, contribution, or cost recovery.

XV. INDEMNIFICATION

Respondents agree to indemnify, save and hold harmless the United States, its officials, agents, contractors, subcontractors, employees and representatives from any and all claims or causes of action: (A) arising from, or on account of, acts or omissions of Respondents and Respondents' officers, heirs, directors, employees, agents, contractors, subcontractors, receivers, trustees, successors or assigns, in carrying out actions pursuant to this Order; and (B) for damages or reimbursement arising from or on account of any contract, agreement, or arrangement between

(any one or more of) Respondents, and any persons for performance of work on or relating to the Site, including claims on account of construction delays. Nothing in this Order, however, requires indemnification by Respondents for any claim or cause of action against the United States based on negligent action taken solely and directly by U.S. EPA (not including oversight or approval of plans or activities of the Respondents).

XVI. MODIFICATIONS

Modifications to any plan or schedule may be made in writing by the RPM or at the RPM's oral direction. If the RPM makes an oral modification, it will be memorialized in writing within 7 business days; however, the effective date of the modification will be the date of the RPM's oral direction. Any other requirements of this Order may be modified in writing by mutual agreement of the parties.

If Respondents seek permission to deviate from any approved plan or schedule, Respondents' Project Coordinator will submit a written request to U.S. EPA for approval outlining the proposed modification and its basis.

No informal advice, guidance, suggestion, or comment by U.S. EPA regarding reports, plans, specifications, schedules, or any other writing submitted by the Respondents will relieve Respondents of their obligations to obtain such formal approval as may be required by this Order, and to comply with all requirements of this Order unless it is formally modified.

XVII. NOTICE OF COMPLETION

When U.S. EPA determines, after U.S. EPA's review of the Final Report, that all work has been fully performed in accordance with this Order, except for certain continuing obligations required by this Order (e.g., record retention, payment of costs), U.S. EPA will provide written notice to the Respondents. If U.S. EPA determines that any removal activities have not been completed in accordance with this Order, U.S. EPA will notify the Respondents, provide a list of the deficiencies, and require that Respondents modify the Work Plan if appropriate to correct such deficiencies. The Respondents will implement the modified and approved Work Plan and will submit a modified Final Report in accordance with the U.S. EPA notice. Failure to implement the approved modified Work Plan will be a violation of this Order.

XVIII. SEVERABILITY

If a court issues an order that invalidates any provision of this Order or finds that Respondents have sufficient cause not to comply with one or more provisions of this Order, Respondents will remain bound to comply with all provisions of this Order not invalidated by the court's order.

XIX. EFFECTIVE DATE

This Order will be effective upon receipt by NL of a copy of this Order signed by the Director, Superfund Division, U.S. EPA Region V.

IN THE MATTER OF:

Master Metals, Inc.,
Superfund Site,
Cleveland, Ohio

SIGNATORIES

Each undersigned representative of a signatory to this Administrative Order on Consent certifies that he or she is fully authorized to enter into the terms and conditions of this Order and to bind such signatory, its successors and assigns, to this document.

Agreed this _____ day of _____, _____.

By:

(Signature)

Name:

Position:

Signatory:

IN THE MATTER OF:

Master Metals, Inc.,
Superfund Site,
Cleveland, Ohio

IT IS SO ORDERED AND AGREED

BY: _____
William E. Muno, Director
Superfund Division
United States
Environmental Protection Agency
Region 5

DATE: _____